

H 3
9/28/99

**United States Environmental Protection Agency
Pollution Report**

EPA Region 5 Records Ctr.



306787

I. HEADINGS

DATE: September 28, 1999

SUBJECT: Pollution Report for the Lake Underground Storage Site,
Painesville Township, Lake County, Ohio

FROM: Jim Augustyn, OSC, USEPA Region V ERB, Westlake, Ohio

TO: K. Mould, U.S. EPA, OSWER, Washington D.C. (VIA LAN)
R. Karl, Chief, ERB, Chicago, IL (VIA LAN)
J. El-Zein, ERB, Chief RS-1, USEPA Region V, Gross Ile (VIA LAN)
B. Messenger, ERB, ESS, USEPA Region V, Chicago, IL . . (VIA LAN)
B. Kush, ERB, Chief, Oil Sec, USEPA Region V, Chicago, IL (VIA LAN)
A. Lilly, ERB, ESS, ERB, USEPA Region V, Chicago, IL . (VIA LAN)
D. Tanaka, USEPA Region V, ORC, Chicago, IL (VIA LAN)
V. Narsete, ERB, USEPA Region V, Chicago, IL (VIA LAN)
K. Clouse, Ohio EPA, Columbus, OH. (E-mail)
S. Shane Ohio EPA, Columbus, OH (E-mail)
D. Crist, ODNR DOG, Columbus, OH (614-268-4316)
N. Niehaus, Lake Co. Health District, Painesville, OH (440-350-2548)
L. Thompson, Chief, Painesville Twp FD, Painesville
Twp, OH (440-354-3514)
N. Koch, CFMC, USEPA, Cincinnati, OH (VIA LAN)
M. McEwen, CDR, USCG, Arlington, VA . (mmcewen@ballston.uscg.mil)
M. Chezick, US Dept Interior, Phil. PA (michael_chezick@ios.doi.gov)
T. Ferring, Lt, USCG, Case Officer,
Arlington, VA (tferring@ballston.uscg.mil)
D. Pugh, LT, USCG Cleveland MSO, Cleveland, OH (FAX 216-522-3290)
Duty Officer, NRC, Washington, D.C. (E-mail)

POLREP 1 - Initial - OPA Funded Removal

Start Date: September 16, 1999

II. BACKGROUND

Site No:	FPN G99032
NPL Status:	Non-NPL
Response Authority	OPA
State Notification:	OEPA
Completion Date:	TBD
Latitude:	41°43'43.37" N
Longitude:	81°16'43.29" W
CERCLA Incident Category:	Removal - OPA funded

III. SITE INFORMATION

A. Incident Category: Removal-OPA funded

B. Site Description

1. Site location and background

Lake Underground Storage (LUS) site (a.k.a Nacelle Land Management Corporation) is a 73-acre, inactive brine facility located in Painesville Township, Lake County, Ohio. The site is located northwest of the city of

Painesville and adjacent to Mentor Marsh State Nature Preserve, which empties into Lake Erie. From the mid 1970s until 1983, the northern portion of the site was the Lake Underground Storage Corporation. The Lake Underground Storage Corporation utilized subsurface caverns and surface tanks to store propane. The Corporation went out of business in 1983.

Beginning in 1983, the Nacelle Land Management Corporation utilized the southern portion of the site's 12-million gallon surface impoundment as an oil and brine separation unit. The company accepted crude oil and brine from oil field and gas field producers and placed it in the 12-million gallon surface impoundment for separation purposes. The company operated under Ohio Department of Natural Resources permit (UIC Permit #186) to inject brine solution into an on-site brine injection well.

A U.S. EPA Superfund removal action was conducted at the site in April through May 1996 to remove abandoned mercaptan and PCB wastes. A subsequent Oil Pollution Act (OPA)-funded removal action was conducted from June 28 to July 23, 1996, to remove 147,850 gallons of crude oil from the surface impoundment and above ground storage tanks. In addition, 47,500 gallons of oil sludge and 345 cubic yards of oil-contaminated soils were removed from the site. The 1996 OPA-funded removal action was completed under Federal Project Number (FPN) 096026.

On August 13, 1999, the Painesville Township Fire Department responded to a grass/brush fire at the facility. The fire had engulfed the four abandoned LPG tanks. After the fire was extinguished, fire department personnel observed oil leaking from pipe fittings of two of the LPG tanks.

On August 16, 1999, Ohio Environmental Protection Agency (OEPA) requested a site visit with representatives from U.S. EPA, OEPA, Lake County Health Department, United States Coast Guard's Marine Safety Office in Cleveland, and the Painesville Township Fire Chief to discuss the site.

During the visit, oil was observed leaking from two of the LPG tanks. Investigations revealed that all four of the LPG tanks contained various amounts of oil. Volumes were estimated to be 70,000 gallons.

Inspection of the surface impoundment revealed the presence of approximately 1,000,000 gallons of an oily-water mixture. The liner of the impoundment was coated with a heavy layer of oily sludge and oil staining was observed near the 3,000-gallon tank adjacent to the impoundment.

The current property owner is Lake Underground Storage Corporation and/or Nacelle Land & Management Corporation. The representative of the company is Mr. Joseph G. Berick. Mr. Berick signed a Notice of Federal Interest and an access agreement on August 30, 1999.

IV. RESPONSE INFORMATION

A. Situation

1. Current situation

On September 16, 1999, U.S. EPA mobilized ERRS and START contractors to the Lake Underground Storage site to address five abandoned aboveground storage tanks (four 30,000-gallon liquid propane tanks [LPG] and one 3,000-gallon storage tank) which contain approximately 70,000 gallons of weathered crude oil. In addition, the site has a 12-million gallon impoundment with approximately 1,000,000 gallons of oil-water mixture. The liner for the impoundment is torn in several locations and is covered with a thick layer of oily sludge. The facility has been abandoned for a number of years and is in

extremely poor condition. Both the aboveground storage tanks and the impoundment present a substantial threat of discharge of oil into or upon the navigable water of the United States.

2. Removal actions to date:

On August 28, 1999, START collected samples of waste oil from the four 30,000-gallon LPG tanks and the 3,000-gallon aboveground storage tank adjacent to the lagoon, and a sample of the water and oil from the lagoon. Samples were analyzed for disposal parameters in order to arrange for disposal acceptance.

From September 16 through 20, 1999, contractors mobilized to the Lake Underground Storage site to conduct an OPA-funded removal action. Four 25 cubic yard vacuum boxes were delivered to site to transport the waste oil sludge removed from the 5 aboveground storage tanks. A total of four 25-cubic yard vac boxes, with waste totaling 35 tons, was taken to American Landfill in Waynesburg, Ohio, for disposal.

On September 21, 1999, one 25-cubic yard box, totaling 11 tons of waste oil was transported off site to American Landfill for disposal. A total of 115 tons of gravel was delivered to site to construct a loading pad for the waste trucks. Water samples were collected from the lagoon for disposal acceptance and are to be analyzed for disposal parameters.

From September 22 through 27, 1999, eight 25-cubic yard vac boxes, with waste totaling 92.43 tons, were transported off site to American landfill for disposal.

B. Next Steps

- Continue to pump the waste oil from the 5 aboveground storage tanks on site.
- Address the surface water, residual oil, and the contaminated sludges and sediments in the 12-million-gallon impoundment.
- Remove the liner and dispose
- Draft site-specific IAG is currently being reviewed by U.S. EPA Management for submission to USCG for funding of removal actions.

C. Key Issues

- Review analytical data for the surface water sample collected from the lagoon. Obtain discharge approval from the OEPA.

V. Cost Information

ERRS	\$ 53,000 (to 9/23/99)
EPA/USGC	\$ 3,000 (to 9/27/99)
START	\$ 5,150 (to 9/27/99)

WASTE DISPOSAL SUMMARY**LAKE UNDERGROUND STORAGE SITE
PAINESVILLE TOWNSHIP, LAKE COUNTY, OHIO**

DATE	WASTE	MANIFEST#	BOX#	VOLUME	DISPOSAL
9/20/99	Waste Oil Sludge	25063	276048	8.6 tons	American Landfill
9/20/99	Waste Oil Sludge	25064	276209	11.0 tons	American Landfill
9/20/99	Waste Oil Sludge	25065	276025	8.06 tons	American Landfill
9/20/99	Waste Oil Sludge	25066	276050	7.26 tons	American Landfill
9/21/99	Waste Oil Sludge	25067	276048	11.27 tons	American Landfill
9/22/99	Waste Oil Sludge	25068	276209	13.64 tons	American Landfill
9/22/99	Waste Oil Sludge	25069	276025	10.39 tons	American Landfill
9/23/99	Waste Oil Sludge	25070	276025	16.62 tons	American Landfill
9/23/99	Waste Oil Sludge	25071	276048	9.02 tons	American Landfill
9/24/99	Waste Oil Sludge	25072	276050	7.42 tons	American Landfill
9/24/99	Waste Oil Sludge	25073	276025	9.74 tons	American Landfill
9/27/99	Waste Oil Sludge	25074	276048	14.05 tons	American Landfill
9/27/99	Waste Oil Sludge	25075	276050	11.55 tons	American Landfill